

OKATECH insulated solar control glazing with integrated metal mesh

Part 1. General

1.01 Summary:

1.01.1 OKATECH insulated solar control glazing with integrated metal mesh is provided by OKALUX North America, LLC.

1.02 Submittals:

1.02.1 Product Data: Manufacturer's catalogs and technical literature showing performance properties and recommended installation procedures.

1.02.2 Submit minimum 8" x 11" samples of OKATECH insulated solar control glazing with integrated metal mesh as required.

1.03 Delivery, Storage, and Handling:

1.03.1 Deliver OKATECH insulated solar control glazing with integrated metal mesh in manufacturer's original packaging.

1.04. Warranty

1.04.1 Provide a 10 year warranty to include the provision of replacement insulated glass units which exhibit moisture or other substances on either of the inner glass surfaces caused by a failure of the hermetic seal that is not attributed to glass breakage, improper installation or cleaning and maintenance contrary to the manufacturer's written instructions.

Part 2. Product

2.01 Manufacturer:

OKALUX GmbH
Am Jöspershecklein 1
97828 Marktheidenfeld
Germany

North American Distribution:

OKALUX North America, LLC
180 S. Broadway, Suite 408
White Plains, NY, 10605
Tel: 914 202-0284
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2.02 Materials:

2.02.1 Description of Product

OKATECH insulated solar control glazing with integrated metal mesh

2.02.2 Glass make up: (Triple glazing)

Outer pane: ___ “ (___ mm) tempered or heat strengthened float glass

Cavity: ___ ” (___ mm) with _____ metal mesh

Middle pane: ___ “ (___ mm) tempered or heat strengthened float glass with
Interpane _____ solar control or low e coating side #4

Main Cavity: ½” (12mm) ___ air, argon or krypton gas fill

Inner pane: ___ “ (___ mm) tempered and heat soak tested or heat strengthened,
laminated glass with ___ “ PVB interlayer.

Sealant: Dual sealed units:

Primary sealant: Polyisobutylene

Secondary sealant: Polysulfide (Capped Systems for framed glazing)
Silicone (Un-capped systems for structural glazing)

Calculations: Glass make-up and thickness to be confirmed by glazing contractor and
façade engineer to meet project load and local code requirements.

2.02.3 Performance Values

OKATECH insulated solar control glazing with integrated metal mesh shall
perform optically and thermally based upon the following:

U Value: ___ btu/hr/ft²/F (either .28 air, .21 argon, or .19 krypton)

Direct Light Transmission: Min 2% - Max 45% dependant on angle of sun,
mesh type and solar control coating

SHGC (TSET): 3% - 36% dependant on angle of sun, mesh type, and solar
control coating

Part 3. Execution

3.01

3.01.1 **Examination:** The glazing contractor shall examine the framing and
glazing channel surfaces and backing as well as the conditions under which the
glazing is to be performed. The glazing contractor shall also inspect each
OKATECH unit prior to installation. Any units deemed to be damaged or of
questionable quality should be brought to the attention of the supplier, OKALUX
North America, LLC, immediately and prior to installation.

3.01.2 **Glazing:** OKATECH should be installed in accordance with the general rules applicable for insulating glass. The glazing plane support system must be free of any internal obstructions and structurally adequate for the application.

3.01.3 **Installation:** As with any insulated glass, the dimensions of units used are limited by the type, thickness of glass and project load requirements.

Part 4. **Warranty**

The warranty extends 10 years from date of delivery under the conditions of normal usage and approved installation. OKALUX's instructions for ordering and installation must be followed.

OKATECH insulated solar control glass will not fail with respect to the perimeter sealing. The warranty includes thermal breakage due to climatic influence if the glass is installed in accordance with approved installation drawings. OKALUX's liability under this warranty is limited solely to the delivery of a replacement unit to the site of installation. Written notice of warranty claim must be provided to the supplier within 90 days of noticing unit failure. OKALUX reserves the right to inspect the unit to verify justification of warranty claim. Replacement units are warranted for the remainder of the original warranty period. The above warranty does not apply to or cover materials that have not been paid for in full.